Author Index to Volume 18

Aalberg, J. J. See Keough, E. M., 281
Adams, A. L.
—; Fischer, G. C.; Munoz, P. C.; Vroman, L.: Convex-lens-on-slide: A simple system for the study of human plasma and blood in narrow spaces, 643
Addy, M.
—; Moran, J.: The formation of stain on acrylic surfaces by the interaction of cationic antiseptic mouthwashes and tea, 631
Affeld, K. See Grosse-Siestrup, C., 357
Akaike, T. See Kasai, S., 243
Alexander, H. *See Ricci, J. L., 1073; Zimmerman,* M., 927
Anderson, J. M. See Marchant, R. E., 309, 1169
Anderson, M. F. *See Schmitt, J. M., 797*
Asaoka, K.
—; Tsuji, K.; Kuwayama, N.: Correlation between *microstructure of Ag–Pd–Au–Cu alloy and* changes in shape on aging, 707
Aubin, M. See Maarek, J. M., 881

Badour, B. *See Sigot-Luizard, M. F., 895*
Baer, M. See Schmitt, J. M., 797
Baier, R. E.
—; *Meyer, A. E.; Natiella, J. R.; Natiella, R. R.;* Carter, J. M.: Surface properties determine bioadhesive outcomes: Methods and results, 337
Bantjes, A. *See de Koning, H. W. M., 1*
Bargar, W. L. See Brown, S. A., 523
Baughman, S. *See Herring, M., 567*
—; Herring, M.; Glover, J.; Dilley, R.: The peroxidase antiperoxidase staining of factor VIII-related *antigen on cultured endothelial cells, 561*
Becker, R. See Voigt, A., 317
Biron, G. See Dumsha, T. C., 809
Black, J. See Koegel, A., 513; Woodman, J. L., 99
Blais, P. See Guidoin, R., 1059
Blumental, M. *See Reich, S., 737*
Boughner, D. R. See Lee, J. M., 61, 79
Boyer, D. B. See Papadogianis, Y., 15; Schulein, *T. M., 789*
Braun, B. See Hess, F., 745
Brown, S. A. See Merritt, K., 991, 1005
—; Bargar, W. L.: The influence of temperature and specimen size on the flexural properties of PMMA bone cement, 523
Brynda, E.
—; Cepalova, N. A.; Štol, M.: Equilibrium adsorption of human serum albumin and human fibrinogen on hydrophobic and hydrophilic surfaces, 685
Burssens, A. See Ducheyne, P., 1017

Callow, A. D. See Keough, E. M., 281
Carter, J. M. *See Baier, R. E., 337*
Cefelin, P. See Migliaresi, C., 137
Cepalova, N. A. See Brynda, E., 685
Chalkley, Y. See Schulein, T. M., 789
Chamuleau, R. A. F. M. See de Koning, H. W. M., 1
Chandy, T.
—; Sharma, C. P.: The antithrombotic effect of prostaglandin E_1 immobilized on albuminated polymer matrix, 1115
Chawla, A. S.
—; Sipehia, R.: Characterization of plasma polymerized silicone coatings useful as *biomaterials, 537*
Chrzanowski, R. B. See Piecuch, J. F., 39
Chuang, H. Y. K.
In situ immunoradiometric assay of fibrinogen adsorbed to artificial surfaces, 547
—; Mitra, S. P.: Adsorption and reactivity of human prothrombin to artificial surfaces, 695
Chvapil, M.
—; Weinstein, P. R.; Misiorowski, R. L.; Telles, D.; Rankin, L.; Stoy, V.: Development of topical BAPN delivery system for acute spinal cord injury in dogs, 757
Chwirut, D. J.
Long-term compressive creep deformation and damage in acrylic bone cements, 25
Coleman, S. E. See Hood, C. I., 1031
Connolly, R. J. See Keough, E. M., 281
Cook, S. D. *See French, H. G., 817*
—; Georgette, F. S.; Skinner, H. B.; Haddad, R. J., Jr.: Fatigue properties of carbon- and *porous-coated Ti–6Al–4V alloy, 497*
Cooper, S. L. See Lelah, M. D., 475
Courtman, D. W. See Lee, J. M., 61, 79
Cox, P. A. *See Hall, C. W., 383*
Crugnola, A. M. See Rose, R. M., 207

Dalit, M. See Margel, S., 617
Dasse, K. A.
Infection of percutaneous devices: Prevention, monitoring, and treatment, 403
de Koning, H. W. M.
—; *Chamuleau, R. A. F. M.;* Bantjes, A.: Crosslinked agarose encapsulated sorbents resistant to steam sterilization. Preparation and mechanical properties, 1
Denissen, H. W.
—; Veldhuis, A. A. H.; Jansen, H. W. B.; van den Hooff, A.: The interface of permucosal dense apatite ceramic implants in humans, 147
Dilley, R. *See Baughman, S., 561*
Domurado, D. See Guidoin, R., 1059; Sigot-Luizard, M. F., 895
Donath, E. *See Voigt, A., 317*
Doremus, R. H. See Tracy, B. M., 719
Ducheyne, P.
—; *Martens, M.;* Burssens, A.: *Materials, clinical and* morphological evaluation of custom-made bioreactive-glass-coated canine hip prostheses, *1017*
—; Willems, G.; Martens, M.; Helsen, J.: *In vivo* metal-ion release from porous titanium-fiber *material, 293*
Dumsha, T. C.
—; Biron, G.: Marginal leakage of class V cavity *preparations, 809*

Eckstein, E. C. See Pinchuk, L., 671
Edwards, R. O. See Stewart, B. L., 979
Elam, J. H.
—; *Nygren, H.;* Stenberg, M.: Covalent coupling of polysaccharides to silicon and silicon rubber surfaces, 953
Ellinghorst, G. See Jansen, B., 655

Ellis, E. See Rose, R. M., 207
Evans, D. See Herring, M., 567
Eyerer, P.
—; Ke, Y. C.: Property changes of UHMW polyethylene hip cup endoprostheses during implantation, 1137

Feijen, J. See Hennink, W. E., 911
Fischer, G. C. See Adams, A. L., 643
French, H. G.
—; Cook, S. D.; Haddad, R. J., Jr.: Correlation of tissue reaction to corrosion in osteosynthetic devices, 817
Fujisawa, S.
—; Kadoma, Y.; Masuhara, E.: A calorimetric study of the interaction of synthetic phospholipid liposomes with vinyl monomers, acrylates and methacrylates, 1105
Fujiu, T.
—; Ogino, M.: Difference of bone bonding behavior among surface active glasses and sintered apatite, 845
Furuta, Y. See Takahashi, J., 427

Galante, J. See Woodman, J. L., 463
Galil, K. A.
—; Schofield, I. D.; Wright, G. Z.: Detection of cyanoacrylate tissue adhesives in histological sections, 609
—; Wright, G. Z.; Schofield, I. D.: The healing of hamster skin ulcers treated with *n*-butyl-2-cyanoacrylate (Histoacryl blue), 601
Gendler, E.
—; Gendler, S.; Nimni, M. E.: Toxic reactions evoked by glutaraldehyde-fixed pericardium and cardiac valve tissue bioprosthesis, 727
Gendler, S. See Gendler, E., 727
Georgette, F. S. See Cook, S. D., 497
Ghidoni, J. J. See Hall, C. W., 383
Gibbons, D. F. See Helmus, M. N., 165; Korman, N. J., 225
Girard, J. F. See Sigot-Luizard, M. F., 895
Glover, J. See Baughman, S., 561; Herring, M., 567
Goldberg, A. J. See Piecuch, J. F., 39
—; Shastry, C. V.: Age hardening of orthodontic beta titanium alloys, 155
Goldberg, E. P. See Reich, S., 737
Gona, A. G. See Ricci, J. L., 1073
Gosselin, C. See Guidoin, R., 1059; Sigot-Luizard, M. F., 895
Graham, D. T.
—; Mark, G. E.; Pomeroy, A. R.; Macarthur, E. B.: *In vivo* validation of a cell culture test for biocompatibility testing of urinary catheters, 1125
Grande, P. See Hess, F., 745
Grosse-Siestrup, C.
—; Affeld, K.: Design criteria for percutaneous devices, 357
Gruen, T. A.
—; Sarmiento, A.: Key references in biomaterials: Bone/biomaterial interface in orthopedic joint implants, 577
Guidoin, R. See Maarek, J. M., 881; Sigot-Luizard, M. F., 895
—; Sigot-Luizard, M. F.; Martin, L.; Marois, M.; Gosselin, C.; King, M.; Gunasekera, K.; Domurado, D.; Sigot-Luizard, M. F.; Sigot, M.; Blais, P.: Polyester prostheses as substitutes in the thoracic aorta of dogs. II. Evaluation of albuminated polyester grafts stored in ethanol, 1059
Gunasekera, K. See Guidoin, R., 1059

Haddad, R. J., Jr. See Cook, S. D., 497; French, H. G., 817
Hales, J. R. S. See Hirshorn, M. S., 47
Hall, C. W.
—; Cox, P. A.; McFarland, S. R.; Ghidoni, J. J.: Some factors that influence prolonged interfacial continuity, 383
Hayashi, K.
—; Matsuda, T.; Takano, H.; Umezu, M.: Effects of immersion in cholesterol-lipid solution on the tensile and fatigue properties of elastomeric polymers for blood pump applications, 939
Helmus, M. N.
—; Gibbons, D. F.; Jones, R. D.: The effect of surface charge on arterial thrombosis, 165
Helsen, J. See Ducheyne, P., 293
Hennink, W. E.
—; Kim, S. W.; Feijen, J.: Inhibition of surface induced coagulation by preadsorption of albumin-heparin conjugates, 911
Herring, M. See Baughman, S., 561
—; Evans, D.; Baughman, S.; Glover, J.: The quantitation of cultured cellular surface coverage: applications for transparent and opaque surfaces, 567
Hess, F.
—; Jerusalem, C.; Grande, P.; Braun, B.: Significance of the inner-surface structure of small-caliber prosthetic blood vessels in relation to the development, presence, and fate of a neo-intima. A morphological evaluation, 745
Hiltner, A. See Marchant, R. E., 309
Hirshorn, M. S.
—; Holley, L. K.; Money, D. K.; Spector, M.; Young, F. A.; Hales, J. R. S.: Histological evaluation of porous titanium cardiac pacemaker electrode tips, 47
Holley, L. K. See Hirshorn, M. S., 47
Hood, C. I.
—; Schoen, F. J.; Coleman, S. E.; Mickley, L. D.: Assessment of tissue reactions to biomaterials: A model system using the foreign body response in the mouse lung to intravenously injected divinyl copolymer beads, 1031
Hrouz, J. See Migliaresi, C., 137

Jansen, B.
—; Ellinghorst, G.: Modification of polyetherurethane for biomedical application by radiation induced grafting. II. Water sorption, surface properties, and protein adsorption of grafted films, 655
Jansen, H. W. B. See Denissen, H. W., 147
Jerusalem, C. See Hess, F., 745
Jiminez, S. A. See Woodman, J. L., 99
Johnson, W. R. See Ward, C. A., 255
Jones, R. D. See Helmus, M. N., 165

Kadoma, Y. See Fujisawa, S., 1105
Kaminski, E. J. See Keller, J. C., 829
Kasai, S.
—; Akaike, T.; Miyata, T.; Kunimoto, T.; Nitta, K.: Separation of macrophages from mouse peritoneal exudate cells with substrata coated with chemically modified collagens, 243
Ke, Y. C. See Eyerer, P., 1137
Keller, J. C.
—; Marshall, G. W.; Kaminski, E. J.: An *in vivo* method for the biological evaluation of metal implants, 829
Keough, E. M.
—; Callow, A. D.; Connolly, R. J.; Weinberg, K. S.; Aalberg, J. J.; O'Donnell, T. F., Jr.: Healing pattern of small caliber dacron grafts in the baboon: An animal model for the study of vascular prostheses, 281
Kim, S. W. See Hennink, W. E., 911
Kimura, H. See Takahashi, J., 427
King, M. See Guidoin, R., 1059; Sigot-Luizard, M. F., 895
Koegel, A.
—; Black, J.: Release of corrosion products by F-75 cobalt base alloy in the rat. I: Acute serum elevations, 513

Koheil, A. See Ward, C. A., 255
Kolařík, J.
—; Vaníček, J.; Migliaresi, C.: Preparation and strength of poly(ethylene terephthalate) fiber bundles for model synthetic tendons, 115
Korman, N. J.
—; Sudilovsky, O.; Gibbons, D. F.: The effect of humoral components on the cellular response to textured and nontextured PTFE, 225
Kunimoto, T. See Kasai, S., 243
Kusy, R. P.
—; Whitley, J. Q.: Influence of the suture diameter on the tensile strength of polypropylene monofilaments and its relationship to the USP specification, 781
Kuwayama, N. See Asaoka, K., 707

Lakes, R. S. See Papadogianis, Y., 15
Lambrecht, L. K. See Lelah, M. D., 475
Lee, J. M.
—; Boughner, D. R.; Courtman, D. W.: The glutaraldehyde-stabilized porcine aortic valve xenograft. II. Effect of fixation with or without pressure on the tensile viscoelastic properties of the leaflet material, 79
—; Courtman, D. W.; Boughner, D. R.: The glutaraldehyde-stabilized porcine aortic valve xenograft. I. Tensile viscoelastic properties of the fresh leaflet material, 61
Lelah, M. D.
—; Lambrecht, L. K.; Cooper, S. L.: A Canine *ex vivo* series shunt for evaluating thrombus deposition on polymer surfaces, 475
Levy, M. See Reich, S., 737
Lipatova, T. E.
—; Pkhakadze, G. A.; Snegirev, A. I.; Vorona, V. V.; Shilov, V. V.: Supermolecular organization of some polyurethanes containing sugar derivatives in the main chain, 129
Lundeen, T. F. See Nagata, K., 1089

Maarek, J. M.
—; Guidoin, R.; Aubin, M.; Prud'homme, R. E.: Molecular weight characterization of virgin and explanted polyester arterial prostheses, 881
Macarthur, E. B. See Graham, D. T., 1125
Madras, P. N. See Ward, C. A., 255
Marchant, R. E.
—; Anderson, J. M.; Phua, K.; Hiltner, A.: *In vivo* biocompatibility studies. II. Biomer: Preliminary cell adhesion and surface characterization studies (Note), 309
—; Miller, K. M.; Anderson, J. M.: In vivo biocompatibility studies. V. In vivo leukocyte interactions with Biomer, 1169
Marcus, L. See Margel, S., 617
—; Mashiah, A.; Offarim, M.; Margel, S.: Extracorporeal removal of specific antibodies by hemoperfusion through the immunosorbent agarose-polyacrolein microsphere beads: removal of anti-bovine serum albumin in animals, 1153
Margel, S. See Marcus, L., 1153
—; Marcus, L.; Mashiah, A.; Savin, H.; Dalit, M.: Extracorporeal removal of mercury by hemoperfusion through agarose–polymercaptal microsphere beads, 617
Mark, G. E. See Graham, D. T., 1125
Marois, M. See Guidoin, R., 1059; Sigot-Luizard, M. F., 895
Marshall, G. W. See Keller, J. C., 829
Martens, M. See Ducheyne, P., 293, 1017
Martin, L. See Guidoin, R., 1059
Mashiah, A. See Marcus, L., 1153; Margel, S., 617
Masuhara, E. See Fujisawa, S., 1105
Matsuda, T. See Hayashi, K., 939
Mazzu, A. L.
—; Smith, C. P.: Determination of extractable methylene dianiline in thermoplastic polyurethanes by HPLC, 961
McFarland, S. R. See Hall, C. W., 383

McNamara, A.
—; Williams, D. F.: Enzyme histochemistry of the tissue response to pure metal implants, 185
Meindl, J. D. See Schmitt, J. M., 797
Merritt, K.
—; Brown, S. A.; Sharkey, N. A.: Blood distribution of nickel, cobalt, and chromium following intramuscular injection into hamsters, 991
—; Brown, S. A.; Sharkey, N. A.: The binding of metal salts and corrosion products to cells and protein *in vitro*, 1005
Meryon, S. D.
The influence of dentine on the *in vitro* cytotoxicity testing of dental restorative materials, 771
Meshorer, A. See Reich, S., 737
Meyer, A. E. See Baier, R. E., 337
Mickley, L. D. See Hood, C. I., 1031
Migliaresi, C. See Kolařík, J., 115
—; Nicodemo, L.; Nicolais, L.; Passerini, P.; Stol, M.; Hrouz, J.; Cefelin, P.: Water sorption and mechanical properties of 2-hydroxyethyl–methacrylate and methyl–methacrylate copolymers, 137
Mihm, F. G. See Schmitt, J. M., 797
Miller, K. M. See Marchant, R. E., 1169
Misiorowski, R. L. See Chvapil, M., 757
Mitra, S. P. See Chuang, H. Y. K., 695
Miyata, T. See Kasai, S., 243
Money, D. K. See Hirshorn, M. S., 47
Moran, J. See Addy, M., 631
Munoz, P. C. See Adams, A. L., 643

Nagata, K.
—; Lundeen, T. F.; Turner, D. T.: Improved photochemical bonding of composites to dentin using 4-methacryloxyethyl trimellitate anhydride, 1089
Natiella, J. R. See Baier, R. E., 337
Natiella, R. R. See Baier, R. E., 337
Nicodemo, L. See Migliaresi, C., 137
Nicolais, L. See Migliaresi, C., 137
Nimni, M. E. See Gendler, E., 727
Nitta, K. See Kasai, S., 243
Nygren, H. See Elam, J. H., 953

O'Donnell, T. F., Jr. See Keough, E. M., 281
Offarim, M. See Marcus, L., 1153
Ogino, M. See Fujiu, T., 845
Okazaki, M. See Takahashi, J., 427

Paipetis, S. A. See Vlissidis, D., 413
Pal, S. See Saha, S., 435
Papadogianis, Y.
—; Boyer, D. B.; Lakes, R. S.: Creep of conventional and microfilled dental composites, 15
Parsons, J. R. See Ricci, J. L., 1073; Zimmerman, M., 927
Passerini, P. See Migliaresi, C., 137
Paul, I. L. See Rose, R. M., 207
Phua, K. See Marchant, R. E., 309
Piecuch, J. F.
—; Goldberg, A. J.; Shastry, C. V.; Chrzanowski, R. B.: Compressive strength of implanted porous replamineform hydroxyapatite, 39
Pilliar, R. M. See Yue, S., 1043
Pinchuk, L.
—; Eckstein, E. C.; Van De Mark, M. R.: The interaction of urea with the generic class of poly(2-hydroxyethyl methacrylate) hydrogels, 671
Pkhakadze, G. A. See Lipatova, T. E., 129
Pomeroy, A. R. See Graham, D. T., 1125
Prewitt, J. M., III
Comment on the characterization of porosity in PTFE-carbon composite implant materials by mercury porosimetry (Letter), 123
Prud'homme, R. E. See Maarek, J. M., 881

Rankin, L. See Chvapil, M., 757
Reich, S.
—; Levy, M.; Meshorer, A.; Blumental, M.; Yalon, M.; Sheets, J. W.; Goldberg, E. P.: Intraocular-lens–endothelial interface: Adhesive force measurements, 737
Ricci, J. L.
—; Gona, A. G.; Alexander, H.; Parsons, J. R.: Morphological characteristics of tendon cells cultured on synthetic fibers, 1073
Ries, M. D. See Rose, R. M., 207
Rose, R. M.
—; Ries, M. D.; Paul, I. L.; Crugnola, A. M.; Ellis, E.: On the true wear rate of ultrahigh molecular weight polyethylene in the total knee prosthesis, 207

Saha, S.
—; Pal, S.: Mechanical propeties of bone cement: A review, 435
Salthouse, T. N.
Some aspects of macrophage behavior at the implant interface, 395
Sarmiento, A. See Gruen, T. A., 577
Savin, H. See Margel, S., 617
Schmitt, J. M.
—; Baer, M.; Meindl, J. D.; Anderson, M. F.; Mihm, F. G.: Inhibition of thrombus formation on intravascular sensors by electrical polarization, 797
Schoen, F. J. See Hood, C. I., 1031
Schofield, I. D. See Galil, K. A., 601, 609
Schulein, T. M.
—; Boyer, D. B.; Chalkley, Y.: Bond strength and hardness of light-activated composite resins, 789
Schulman, A. See Vaidyanathan, J., 871; Vaidyanathan, T. K., 867
Sevast'ianov, V. I.
—; Tseytlina, E. A.: The activation of the complement system by polymer materials and their blood compatibility, 969
Sharkey, N. A. See Merritt, K., 991, 1005
Sharma, C. P. See Chandy, T., 1115
Shastry, C. V. See Goldberg, A. J., 155; Piecuch, J. F., 39
Sheets, J. W. See Reich, S., 737
Shilov, V. V. See Lipatova, T. E., 129
Shinn, W. See Woodman, J. L., 463
Sigot, M. See Guidoin, R., 1059; Sigot-Luizard, M. F., 895
Sigot-Luizard, M. F. See Guidoin, R., 1059
—; Domurado, D.; Sigot, M.; Guidoin, R.; Gosselin, C.; Marois, M.; Girard, J. F.; King, M.; Badour, B.: Cytocompatibility of albuminated polyester fabrics, 895
Sipehia, R. See Chawla, A. S., 537
Skinner, H. B. See Cook, S. D., 497
Smith, C. P. See Mazzu, A. L., 961
Snegirev, A. I. See Lipatova, T. E., 129
Soderholm, K-J.
Water sorption in a bis(GMA)/TEGDMA resin, 271
Spector, M. See Hirshorn, M. S., 47
Stenberg, M. See Elam, J. H., 953
Stewart, B. L.
—; Edwards, R. O.: Removable partial denture design: A photoelastic study, 979
Štol, M. See Brynda, E., 685; Migliaresi, C., 137
Stoy, V. See Chvapil, M., 757
Sudilovsky, O. See Korman, N. J., 225

Takahashi, J.
—; Okazaki, M.; Kimura, H.; Furuta, Y.: Casting properties of Ni–Ti shape memory alloy, 427
Takano, H. See Hayashi, K., 939
Telles, D. See Chvapil, M., 757
Tracy, B. M.
—; Doremus, R. H.: Direct electron microscopy studies of the bone–hydroxylapatite interface, 719
Tseytlina, E. A. See Sevast'ianov, V. I., 969
Tsuji, K. See Asaoka, K., 707
Turner, D. T. See Nagata, K., 1089
Turner, R. C.
Free radical decay kinetics in PMMA bone cement, 467

Umezu, M. See Hayashi, K., 939
Urban, R. See Woodman, J. L., 463

Vaidyanathan, J.
—; Vaidyanathan, T. K.; Schulman, A.: Demineralization and ion binding action of polycarboxylate cement liquid on human dental enamel, 871
Vaidyanathan, T. K. See Vaidyanathan, J., 871
—; Schulman, A.: Academic focus: Graduate study in dental materials science at New York University College of Dentistry, 867
Van De Mark, M. R. See Pinchuk, L., 671
van den Hooff, A. See Denissen, H. W., 147
Vaníček, J. See Kolařik, J., 115
Veldhuis, A. A. H. See Denissen, H. W., 147
Vlissidis, D.
—; Paipetis, S. A.: The mechanical strength of maxillary complete dentures, 413
Voigt, A.
—; Becker, R.; Donath, E.: Streaming potential and streaming current measurements to estimate surface conduction and electric double layer structure of biomaterials (Note), 317
von Recum, A. F.
Applications and failure modes of percutaneous devices: A review, 323
Vorona, V. V. See Lipatova, T. E., 129
Vroman, L. See Adams, A. L., 643

Ward, C. A.
—; Koheil, A.; Johnson, W. R.; Madras, P. N.: Reduction in complement activation from biomaterials by removal of air nuclei from the surface roughness, 255
Weatherly, G. C. See Yue, S., 1043
Weinberg, K. S. See Keough, E. M., 281
Weinstein, P. R. See Chvapil, M., 757
Weiss, A. B. See Zimmerman, M., 927
Whitley, J. Q. See Kusy, R. P., 781
Willems, G. See Ducheyne, P., 293
Williams, D. F. See McNamara, A., 185
Woodman, J. L.
—; Black, J.; Jiminez, S. A.: Isolation of serum protein organometallic corrosion products from 316LSS and HS-21 *in vitro* and *in vivo*, 99
—; Shinn, W.; Urban, R.; Galante, J.: Electron microprobe analysis of metal ion transport in cortical bone (Note), 463
Wright, G. Z. See Galil, K. A., 601, 609

Yalon, M. See Reich, S., 737
Young, F. A. See Hirshorn, M. S., 47
Yue, S.
—; Pilliar, R. M.; Weatherly, G. C.: The fatigue strength of porous-coated Ti–6% Al–4% V implant alloy, 1043

Zimmerman, M.
—; Parsons, J. R.; Alexander, H.; Weiss, A. B.: The electrical stimulation of bone using a filamentous carbon cathode, 927

Subject Index to Volume 18

Academic focus, 867
Acrylate, 1105
Acrylic, 631
Acrylic bone cement, 523
Acrylic resins, 413
Activation energy, 271
Adhesive force, 737
Adhesive strength, 1089
Adsorption, 643, 685, 695
Adsorption–desorption behavior, 911
Agarose gel coating, 1
Agarose-polyacrolein microsphere beads, 1153
Agarose–polymercaptal microsphere beads, 617
Age hardening, 155
Aging, 707
Air nuclei removal, 255
Albumin, 895
Albuminated polyester, 1059
Albuminated polymer matrix, 1115
Albumin–heparin conjugates, 911
Aluminum, 185
Antibodies, 1153
Anti-bovine serum albumin, 1153
Antiseptics, 631
Arterial prosthesis, 881
Attachment factors, 225
Autoradiography, 547
Average molecular weight, 1137
Avulsion, 323

Baboons, 281
Bioadhesion, 337
Biocompatibility, 185, 293, 309(N), 617, 1125, 1169
Biocompatibility of metals, 829
Biomaterials, 475, 537, 695, 969
Biomedical sensors, 797
Biomer, 309(N), 1169
Bioprosthesis and cytotoxicity, 727
Blood, 165, 643
Blood compatibility, 475, 969
Blood conduit, 1059
Blood pump, 939
Blood vessel substitutes, 895, 1059
Bone, 927
Bone cement, 25, 435, 467
Bone–hydroxylapatite interface, 719
Bone/material interface, 577

Canines, 475
Carbon fiber, 927
Carbon-reinforced, 25
Cardiac, 727
Cathode, 927
Cell adhesion, 309(N)
Cell binding, 991, 1005
Cell culture, 1125
Cell migration, 1073
Cell separation, 243
Cement, 871
Chemically modified collagens, 243
Chlorhexidine, 631
Cholesterol–lipid solution, 939
Chromium, 99, 463(N), 1005
—, blood distribution of, 991
Class V composite resins, marginal leakage, 809
Coating materials, 497
Cobalt, 99, 185, 463(N), 1005
—, blood distribution of, 991
Cobalt–chromium alloy, 513
Complement activation, 255, 969
Composite, reinforced, 435
Composites, 15, 789
Copolymers, 137
Copper, 185
Corrosion, 513, 817
Corrosion products, 1005
Corrosion rate, 99
Creep, 15, 25
Crosslinking sterilization by gamma radiation and steam, 1
Cuprophane, 547
Cyanoacrylate, 601, 609
Cytotoxicity, 771
Cytotoxic titration assay, 1125

Dacron grafts, 281
Degree of crystallinity, 881
Delivery system, 757
Demineralization, 871
Dense apatite implants, 147
Density changes, 1137
Dental bonding, 789
Dental casting, 427
Dental materials, 789
Dental restorative materials, 771
Dental stain, 631
Dentin, bonding of composites to, 1089
Dentine, 771
Dextran, 953
4,4′-Diaminodiphenylmethane, 961
Differential scanning calorimetry, 881
Diffusion, 271
Dilution, 871
Divinyl copolymer beads, 1031
Double layer structure, 317(N)
DSC, 1105
DTA curve, 427

Electrical polarization, 797
Electrical stimulation, 927
Electrode tips, 47
Electron microprobe, 463(N)
Electron microscopy, 719
Electron paramagnetic resonance (EPR), 467
Ellipsometry, 953
Empirical model, 25
Endothelium, 561, 737
Energy transmission, 403
Enzyme histochemistry, 185
Etching, 871
Ex-vivo, 475
Extraction measurements, 1137
Exudate, ion beam texturing, 225

Factor VIII-related antigen, 561
Fatigue properties, 497
Fatigue test, 939
Fiber bundles, 115
Fibrinogen, 475
Fibrinogen adsorption, 547
Fibrinogen adsorption/desorption, 953
Fibroblastic–fibrocytic cells, 337
Fluorescence, 463(N)
Fracture, 435
Free radical, 467

Gel permeation chromatography, 881
Glass metal oxides, 643
Glutaraldehyde, 727
Graduate study in dental materials, 867
Grafts, 895
Granulocyte adhesion, 695
Granuloma formation, 1031
Growth, 567
Growth factors, 225

Healing, 281
Hemoperfusion, 1, 617, 1153
Heparin, 911
Heparinized surfaces, 911
High cycle fatigue strength, 1043
Hip prostheses, bioreactive-glass-coated, 1017
Histoacryl blue, 601
Histochemistry, 609
Histology, 165
HPLC, 961
Human fibrinogen, 685
Human serum albumin, 685
Hydrogel, 671, 757
Hydrophilic surfaces, 953
Hydrophilization, 655
Hydroxyapatite, 39
2-Hydroxyethyl methacrylate, 671

Imaging, 719
Immunoradioassay, 547
Immunosorbent system, 1153
Implant and push-out test, 845
Implantations, 757
Implant material, 383
Implants, 39, 123(L), 323, 337, 383, 1169
Implant–skin interface, 323
Indium–tin oxide, 797
Infection, 323, 403
Inflammation, 1031
Influence of γ-sterilization, 1137
Infrared spectrometry, 1137
Interface, 147
Internal fixation, 817
Intraocular lens, 737
In vivo, 165
Ion binding, 871

Joint replacement, 207

Key references, 577
Kinetics, 467

Lead, 185
Leakage, 809
Letters, 123
Leukocyte interactions, 1169
Liposome, 1105

Macrophages, 243, 395
Marsupialization, 323
Maxillary dentures, 413
MDA, 961

Mechanical properties, 137, 427, 435
Mechanical strength, 413
Medication, sustained release, 757
Medullary canal, 927
Mercury, 617
Metal ion release, 293
Metal salts in blood, 991, 1005
Metal transport in blood, 991
Metastable betatitanium alloys, 155
Methacrylate, 1105
Methacrylic acid, 671
4-Methacryloxyethyl trimellilate anhydride (4-META), 1089
Methylene dianiline, 961
Microscopy, 745
Model synthetic tendons, 115
Molecular weight, 881
Monofilaments, 781
Morphology, 745
Mouse lung, 1031

Neo-intima, 745
Nickel, 99, 185, 463(N), 1005
—, blood distribution of, 991
Ni–Ti alloy, 427

Organometallic cpds, 513
Orthodontic therapy, 155
Orthopedic joint implants, 577
Oxidation of UHMW PE, 1137
Oxidative chain scission, 1137

Pacemakers, 47
Particle/surface interface, 1043
Pellethane, 961
Percutaneous devices, 323, 357, 383
Percutaneous leads, 403
Pericardium, 727
Peritoneal cavity, 829
Permigration, 323
Peroxidase antiperoxidase, 561
Photoelastic free-end saddle denture, 979
Planimetry, 567
Plasma polymerization, 537
Plasma proteins, 643
Platelet adhesion, 643, 1115
Platelets, 475
Plates, 817
PMMA, 25, 435
Polariscope, 979
Polycarboxylate, 871
Polydispersity, 881
Polyester, 895
Polyester yarn, 881
Polyether polyurethane, 939
Polyetherurethanes, 655
Polyethylene, 207
Poly(ethylene terephthalate) fibers, 115
Polymer, 165
Poly(methyl methacrylate), 467
Polypropylene, 781
Polyurethanes, 129
Porcine aortic valves, 61, 79
Porosimetry, 123(L)
Porosity, 47, 123(L)
Porous-coated systems, 497
Porous fiber material, 293
Prostaglandins, immobilization of, 1115
Prosthetic blood vessels, 745
Protein, 771
Protein adsorption, 655
Protein adsorption to soft tissue implants, 225
Protein binding, 1005
Prothrombin, 695
PTFE-carbon-composite implants, 123(L)

Quantitative cellular response to metals, 829

Radiation grafting, 655
Rat, 513
Reactivity, 695
Resin-filler bonding, 271
Restoration, 809
Retrieved hip cup endoprostheses, 1137
Ridge augmentation, 39

Scanning microscopy, 165
Semiquantitative bacterial cultures, 403
Serum, 513
Serum protein organometallic complexes, 99
Shape memory, 427
Shear rate, 475
Silicone polymers, 537
Silicon surface modification, 953
Sintered apatite, 845
Skin forces, 383
Sorbents, 1
Spinal cord injury, 757
Staining, 561
Standard diffusion coefficient, 271
Static strength, 413
Stereology, 567
Streaming current, 317(N)
Streaming potential, 317(N)
Strength, 115
Stress distribution, 413
Stress-freezing cycle, 979
Stress intensification, 1043
Sugar derivatives, 129
Supermolecular organization, 129
Surface active glass, 845
Surface characterization, 537
Surface charge, 165
Surface conduction, 317(N)
Surface energy states, 337
Surface properties, 655
Surface roughness, 255
Surface tension, 255
Swelling, 671
Swelling of biomaterial surfaces, 317(N)
Synthetic fibers, 1073
Systemic effect of corrosion, 99

Teeth, 809
Temperature, 523
Tendon cells, morphological characteristics, 1073
Tensile strength, 781
Tensile test, 939
Thermoplastic polyurethane, 961
Three-dimensional model, 979
Thrombosis, 797, 1115
Thrombus, 165, 475
Tissue, 47, 337
Tissue adhesive, 601, 609
Tissue culture, 561, 567
Tissue forces, 383
Tissue reactions, 817, 1031
Titanium, 293, 463(N)
Titanium 6–4, 1043
Total knee replacement, 207
Toxicity, 1125

Ulcers, 601
Ultra-high-molecular-weight polyethylene (UHMW PE), 1137
Urea, 671
Urinary catheters, 1125
USP specification, 781

Valves, 727
Vascular grafts, 745, 1059
Vascular prostheses, 281, 561, 567
Vinyl monomer, 1105
Viscoelasticity, 15, 435
Viscoelastic properties, 61, 79
Vitamin C, 1115

Water sorption, 137, 655
Water swelling, 271
Wear, 207

Xenograft, 61, 79

Zinc oxide eugenol (ZOE), 771